PATENT COOPERATION TREATY

From	the			REC'D 0 4 JUL 2005		
INTERNATIONAL SEARCHING AUTHORITY				WIPO PCT		
To:				PCT		
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	see form PCT/ISA/220			TEN OPINION OF THE		
	300 1011111 0 1/10/1/220	·	INTERNATIO	NAL SEARCHING AUTHORITY		
			(PCT Rule 43 <i>bis</i> .1)		
			Date of mailing			
L			(day/montn/year) se	ee form PCT/ISA/210 (second sheet)		
Applicant's or agent's file reference			FOR FURTHER	ACTION		
see	form PCT/ISA/220		See paragraph 2 bel			
1	national application No.	International filing date (d	lay/month/year)	Priority date (day/month/year)		
PC1	MB2005/050984	22.03.2005		02.04.2004		
ľ	national Patent Classification (IPC) or b	ooth national classification a	and IPC			
A61	B8/12	•		·		
Appli				100		
KOI	NINKLIJKE PHILIPS ELECTRO	NICS, N.V.				
				,		
1.	This opinion contains indication	ons relating to the follo	owina items:			
	☐ Box No. II Basis of the opi	inion				
	_	ant of onlines with rose	rd to pavoltu invonti			
	 □ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability □ Box No. IV Lack of unity of invention 					
	⊠ Box No. V Reasoned state	ement under Rule 43 <i>bis</i> .	1(a)(i) with regard to	novelty, inventive step or industrial		
	_	ations and explanations	supporting such sta	tement		
	☐ Box No. VI Certain docume ☐ Box No. VII Certain defects		!!a!			
	☐ Box No. VIII Certain derects	in the international appl				
_		ations on the international	ai application			
2.	FURTHER ACTION					
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.					
	If this opinion is, as provided abore submit to the IPEA a written reply months from the date of mailing of whichever expires later.	together, where approp	riate, with amendme	IPEA, the applicant is invited to ents, before the expiration of three of 22 months from the priority date,		
	For further options, see Form PC	T/ISA/220.				
3.	For further details, see notes to Form PCT/ISA/220.					
	•					
			•			
				•		
Name	and mailing address of the ISA:		Authorized Officer			



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Artikis, T

Telephone No. +49 89 2399-7923



International application No. PCT/IB2005/050984

_	Box N	o. I Basis of the opinion			
1.	. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.				
	la	nis opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).			
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
	a. type of material:				
		a sequence listing			
		table(s) related to the sequence listing			
i	b. format of material:				
		in written format			
		in computer readable form			
	c. time	of filing/furnishing:			
		contained in the international application as filed.			
		filed together with the international application in computer readable form.			
		furnished subsequently to this Authority for the purposes of search.			
3.	há co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.			
4.	Additional comments:				

International application No. PCT/IB2005/050984

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

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Novelty (N)

Yes: Claims

1-20

No: Claims

Inventive step (IS)

Yes: Claims

1-20

No: Claims

Industrial applicability (IA)

Yes: Claims

1-20

No: Claims

2. Citations and explanations

see separate sheet

Re Item V.

1 Reference is made to the following documents:

D1: US 6 592 520 B1 (PESZYNSKI MICHAEL ET AL) 15 July 2003 (2003-07-15)

D2: PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12, 5 December 2003 (2003-12-05); JP 2003 230568 A (OLYMPUS OPTICAL CO LTD), 19 August 2003 (2003-08-19)

- Document D1, which is considered to represent the most relevant state of the art, discloses (the references in parentheses applying to this document) an ultrasonic intracavity probe (see abstract) for scanning a volumetric region from within the body comprising (see figure 1):
 - a handle section (14);
 - a shaft section (12) having a distal end (30);
 - a pivotally mounted array transducer (42) located in the distal end (30);
 - a motor (see col. 11, lines 50-51: the drive motor 128) located in the handle section (14);
 - a drive mechanism (see col. 11, lines 53-54; the drive shaft 50 and col. col. 8, lines 32-34) coupled to the motor (128) and the array transducer (42) to move the array transducer (see the paragraph bridging columns 11 and 12); and
 - a liquid bath (see col. 9, lines 19-21) located in the distal end (30).

From this, the subject-matter of independent claim 1 differs in that the center of gravity of the probe is located in the handle portion.

- 2.1 The subject-matter of claim 1 is therefore novel (Article 33(2) PCT)
 The problem to be solved by the present invention may be regarded as how to improve the handling of the probe.
- 2.2 The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT), because none of the available prior art documents discloses an intracavity imaging probe with the center of gravity in the handle portion. Document D1 is silent about the center of gravity of the device and only refers (see col. 11, line 50 col. 12, line 25) to the problem of

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2005/050984

undesired vibrations caused by the drive motor (128), which is solved by a counter balance motor (138) and a counter balance mass (156). Document D2 addresses the problem of ease of handling of an ultrasonic treating instrument and proposes the solution of positioning the center of gravity of the device in the handle. However, the device known in D2 originates from the field of ultrasonic surgery, such as incision and coagulation, and has not been disclosed for intracavity purposes. Therefore, the person skilled in the art would not consider combining documents D1 and D2 and thus the inventive step (Art. 33(3) PCT).

3. Claims 2-20 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

PATENT COOPERATION TREATY

REC'D 0 4 JUL 2005 From the INTERNATIONAL SEARCHING AUTHORITY WIPO To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/IB2005/050984 22.03.2005 02.04.2004 International Patent Classification (IPC) or both national classification and IPC A61B8/12 Applicant KONINKLIJKE PHILIPS ELECTRONICS, N.V. 1. This opinion contains indications relating to the following items: Box No. 1 Basis of the opinion ☐ Box No. II Priority ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention ☑ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application 2. **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

European Patent Office

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Authorized Officer

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4.	Additional comments:				

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1. Statement

Novelty (N)

Yes: Claims

1-20

No: Claims

Inventive step (IS)

Yes: Claims

1-20

No: Claims

Industrial applicability (IA)

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1-20

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